

Title (en)
ALDOLASE CATALYTIC ANTIBODY

Title (de)
KATALYTISCHER ANTIKÖRPER GEGEN ALDOLASE

Title (fr)
ANTICORP CATALYTIQUE ALDOLASE

Publication
EP 0870014 B9 20071010 (EN)

Application
EP 96943772 A 19961216

Priority
• US 9620052 W 19961216
• US 57341595 A 19951215

Abstract (en)
[origin: US5985626A] Antibodies that catalyze the aldol reaction are generated by immunization with a reactive compound that covalently traps a Lysine (Lys) residue in the binding pocket of the antibody by formation of a stable vinylogous amide, i.e., a covalent antibody/hapten complex. The resultant catalytic antibodies employ a catalytic mechanism which mimics the catalytic mechanism employed by natural class I aldolase enzymes.

IPC 8 full level
C12N 9/00 (2006.01); **C07C 45/45** (2006.01); **C07C 231/12** (2006.01); **C07C 233/33** (2006.01); **C07K 16/44** (2006.01); **C12N 5/10** (2006.01); **C12N 5/12** (2006.01); **C12N 5/18** (2006.01); **C12N 9/88** (2006.01); **C12N 15/06** (2006.01); **C12P 7/26** (2006.01); **C12P 13/00** (2006.01); **C12P 21/08** (2006.01)

CPC (source: EP US)
C12N 9/0002 (2013.01 - EP US); **C12N 9/88** (2013.01 - EP US); **C12P 7/26** (2013.01 - EP US); **G01N 2333/901** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)
AL LT LV RO SI

DOCDB simple family (publication)
WO 9721803 A1 19970619; AT E354644 T1 20070315; AU 1292397 A 19970703; AU 729055 B2 20010125; CA 2239167 A1 19970619; CA 2239167 C 20090922; DE 69636923 D1 20070405; DE 69636923 T2 20071108; DK 0870014 T3 20070611; EP 0870014 A1 19981014; EP 0870014 A4 20020313; EP 0870014 B1 20070221; EP 0870014 B9 20071010; ES 2283009 T3 20071016; JP 3996642 B2 20071024; JP H11510063 A 19990907; PT 870014 E 20070531; SI 0870014 T1 20070831; US 5733757 A 19980331; US 5985626 A 19991116; US 6368839 B1 20020409

DOCDB simple family (application)
US 9620052 W 19961216; AT 96943772 T 19961216; AU 1292397 A 19961216; CA 2239167 A 19961216; DE 69636923 T 19961216; DK 96943772 T 19961216; EP 96943772 A 19961216; ES 96943772 T 19961216; JP 52226397 A 19961216; PT 96943772 T 19961216; SI 9630754 T 19961216; US 44099599 A 19991116; US 5381898 A 19980331; US 57341595 A 19951215